

S-137-1103S

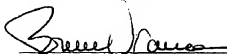
REMARKS

Applicant points out that reference to claim 47 in the Remarks section of the April 16, 2002 Preliminary Amendment should refer to claim 84, as old claim 47 has been renumbered 84.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned **"Version with markings to show changes made."**

If in the opinion of the Examiner, a telephone conference would expedite the prosecution of the subject application, the Examiner is invited to call Applicant's undersigned attorney.

Respectfully submitted,



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Date: September 18, 2002

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Version with markings to show changes made**In the claims:**

Claims 49, 51, 53, 55, and 57 from Applicant's April 16, 2002 amendment have been cancelled.
All claims not set forth below have been cancelled.

The following claims set forth in Applicant's April 16, 2002 Preliminary Amendment have been amended:

4784. An isolated DNA comprising a sequence encoding a protein kinase having the amino acid sequence depicted in SEQ ID No.3, SEQ ID No. 21 or SEQ ID No. 33, or a protein having an amino acid sequence which is at least 90% similar thereto and which hybridizes under stringent washing conditions of 3x20 min in 0.5% SSC, 1% SDS at 65° C with said isolated DNA having the sequence depicted in SEQ ID No. 1, SEQ ID No. 2, SEQ ID No. 20, or SEQ ID No. 32 and encoding a protein kinase having the same activity as the sequences depicted in SEQ ID No. 3, SEQ ID No. 21, or SEQ ID No. 33.

4885. The DNA according to claim **4784**, wherein the protein is a leucine rich repeat receptor like kinase and comprises a ligand binding domain, a proline box, a transmembrane domain, a kinase domain and a protein binding domain.

5086. The DNA according to claim **8447**, which further encodes a cell membrane targeting sequence.

5287. The DNA according to claim **4784**, wherein the sequence is modified in that known mRNA instability motifs or polyadenylation signals are removed or codons which are preferred by the plant into which the DNA is to be inserted are used so that expression of the thus modified DNA in the said plant yields a protein having an amino acid sequence which is at least 90% similar to the sequence of that obtained by expression of the unmodified DNA in the organism in which the protein is endogenous.

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5488. An expression vector containing the DNA sequence as claimed in claim 4784.

5689. An expression vector according to claim 8854, in which the protein encoding region is under expression control of a developmentally regulated or inducible promoter.

5890. An expression vector according to claim 5688, wherein the promoter is one of the following: a promoter which regulates expression of SERK genes *in planta*, the carrot chitinase DcEP3-1 gene promoter, the *Arabidopsis* AtChitIV gene promoter, the *Arabidopsis* LTP-1 gene promoter, the *Arabidopsis* bel-1 gene promoter, the petunia fbp-7 gene promoter, the *Arabidopsis* ANT gene promoter, the promoter of the O126 gene from *Phalaenopsis*; the *Arabidopsis* DMC1 promoter, or the pTA7001 inducible promoter.

5991. An expression vector according to claim 5789, wherein the promoter is one of the following: a promoter which regulates expression of SERK genes *in planta*, the carrot chitinase DcEP3-1 gene promoter, the *Arabidopsis* AtChitIV gene promoter, the *Arabidopsis* LTP-1 gene promoter, the *Arabidopsis* bel-1 gene promoter, the petunia fbp-7 gene promoter, the *Arabidopsis* ANT gene promoter, the promoter of the O126 gene from *Phalaenopsis*; the *Arabidopsis* DMC1 promoter, or the pTA7001 inducible promoter.

6092. A plant cell transformed with the vector of claim 5488.

6193. A plant cell transformed with the vector of claim 5589.

6294. Plant cell according to claim 6092, which is part of a whole plant.

6295. Plant cell according to claim 6193, which is part of a whole plant.

6496. Plants transformed with the vector of claim 5488, or the seeds or progeny of such plants, wherein said seeds or progeny contain said vector of claim 5488.

6597. Plants transformed with the vector of claim 5589, or the seeds or progeny of such plants, wherein said seeds or progeny contain said vector of claim 5589.